
WIDEORH (TM)

Release 3.1A John F. Collins, Biocomputing Research Unit,
Copyright (c) 1993-1998 University of Edinburgh, U.K.
Distribution rights by Oxford Molecular Ltd

Msrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Thu Sep 7 15:54:22 2000; MasPar time 5.66 Seconds

Tabular output not generated. 430.455 Million cell updates/sec

Title: >US-09-270-910-37
Description: (1-159) from US09270910.pep
Perfect Score: 1087
Sequence: 1 GFVNYETFTSVIPARLFK.....GETLLRAVESYLLAHSQAYN 159

Scoring table: PAM 150
Gap 11

Searched: 152433 seqs, 15329240 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:5A_COMB 2:5B_COMB 3:6_COMB 4:PCT_COMB 5:backfiles1

Statistics: Mean 28.319; Variance 127.595; Scale 0.222

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description	Pred. No.
1	1080	99.4	160	1	US-07-847-	Sequence 23, Applicati	2.33e-89
2	939	86.4	160	1	US-07-847-	Sequence 3, Applicati	4.36e-76
3	884	81.3	160	1	US-07-847-	Sequence 17, Applicati	6.35e-71
4	883	81.2	160	1	US-07-847-	Sequence 14, Applicati	7.89e-71
5	877	80.7	160	1	US-07-847-	Sequence 11, Applicati	2.88e-70
6	862	79.3	160	1	US-07-847-	Sequence 20, Applicati	7.35e-69
7	506	46.6	158	5	5312912-2	atent No. 5312912	9.28e-36
8	397	36.5	154	1	US-08-911-	Sequence 1, Applicatio	8.35e-26
9	382	36.1	154	2	US-08-911-	Sequence 4, Applicatio	2.37e-25
10	102	9.4	836	1	US-08-426-	Sequence 6, Applicati	2.09e+00
11	102	9.4	837	1	US-08-426-	Sequence 23, Applicati	2.09e+00
12	101	9.3	152	2	US-09-111-	Sequence 13, Applicati	2.48e+00
13	101	9.3	152	1	US-08-592-	Sequence 13, Applicati	2.48e+00
14	101	9.3	152	1	US-08-788-	Sequence 20, Applicati	2.48e+00
15	94	8.6	553	2	US-08-586-	Sequence 2, Applicatio	8.19e+00
16	94	8.6	553	3	US-09-082-	Sequence 2, Applicatio	8.19e+00
17	93	8.6	1912	3	US-08-685-	Sequence 4, Applicatio	9.70e+00
18	93	8.6	1912	1	US-08-409-	Sequence 4, Applicatio	9.70e+00
19	92	8.5	277	3	US-09-111-	Sequence 3, Applicatio	1.15e+01
20	92	8.5	277	3	US-08-360-	Sequence 3, Applicatio	1.15e+01
21	92	8.5	777	2	US-08-477-	Sequence 4, Applicatio	1.15e+01
22	91	8.4	416	3	US-08-554-	Sequence 21, Applicati	1.36e+01
23	88	8.1	369	2	US-08-851-	Sequence 10, Applicati	2.23e+01

ALIGNMENTS

RESULT	ID	Sequence	Alignment	PRT	MA
1	US-07-847-010-23	Sequence 23, Application US/07847010	Sequence 3, Applicatio	2.64e+01	
2	US-08-864-	Sequence 12, Applicati	2.64e+01		
3	US-08-812-	Sequence 16, Applicati	2.64e+01		
4	US-08-185-	Sequence 89, Applicati	3.11e+01		
5	US-08-946-	Sequence 37, Applicati	3.66e+01		
6	US-08-463-	Sequence 4, Applicatio	3.66e+01		
7	US-08-897-	Sequence 1, Applicatio	3.66e+01		
8	US-08-463-	Sequence 1, Applicatio	3.66e+01		
9	PCT-US94-0	Sequence 37, Applicati	3.66e+01		
10	US-08-462-	Sequence 1, Applicatio	3.66e+01		
11	US-08-001-	Sequence 2, Applicatio	3.66e+01		
12	US-08-426-	Sequence 22, Applicati	3.66e+01		
13	US-08-702-	Sequence 18, Applicati	4.31e+01		
14	US-08-449-	Sequence 18, Applicati	4.31e+01		
15	PCT-US95-0	Sequence 18, Applicati	4.31e+01		
16	US-08-560-	Sequence 55, Applicati	7.01e+01		
17	US-08-290-	Sequence 11, Applicati	5.96e+01		
18	US-08-286-	Sequence 2, Applicatio	5.96e+01		
19	US-08-290-	Sequence 4, Applicatio	5.96e+01		
20	US-08-951-	Sequence 4, Applicatio	5.96e+01		
21	US-08-469-	Sequence 52, Applicati	5.96e+01		

Sequence 23, Application US/07847010

Patent No. 5693495

GENERAL INFORMATION:

APPLICANT: Bretteneder, Helmo

APPLICANT: Reikerstorfer, Arnold

APPLICANT: Valenta, Rudolf

APPLICANT: Hoffmann - Sommergruber, Karin

APPLICANT: Breitenbach, Michael

APPLICANT: Kraft, Dietrich

APPLICANT: Rumpold, Helmut

APPLICANT: Scheiner, Otto

APPLICANT: Ebner, Christof

APPLICANT: Ferreira, Fatima

TITLE OF INVENTION: Allergens of Alder Pollen and

TITLE OF INVENTION: Applications Thereof

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/847,010

FILING DATE: 01-JUN-1992

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Jones III, Harry C

REGISTRATION NUMBER: 20,280

REFERENCE/DOCKET NUMBER: 6530-010

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

CC TELEFAX: (212) 869-9741/8864
CC TELEX: 66141 PENNIE
CC INFORMATION FOR SEQ ID NO: 23:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 160 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC HYPOTHETICAL: NO
CC ORIGINAL SOURCE:
CC ORGANISM: birch (Betula sp.)
CC IMMEDIATE SOURCE:
CC LIBRARY: POLLEN FROM ALLERGO AB, ENGELHOLM, SWEDEN
CC SEQUENCE 160 AA; 17571 MW; 135380 CN;

Query Match 99.4%; Score 1080; DB 1; Length 160;
Best Local Similarity 99.4%; Pred. No. 2.33e-89;
Matches 158; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 2 GFVNYETETTSVIPAAFLFAFLIDGDLFPKVAPOAISSVENIEGNGPGTIIKISFPE 61
OY 1 GFVNYETETTSVIPAAFLFAFLIDGDLFPKVAPOAISSVENIEGNGPGTIIKISFPE 60

Db 62 GFPEKRYKRDVDEVDHNFKNYSVIEGPIGDTLEKISNEIKIVATPDGGSILKISNKY 121
OY 61 GFPEKRYKRDVDEVDHNFKNYSVIEGPIGDTLEKISNEIKIVATPDGGSILKISNKY 120

Db 122 HTKGDHEVKAQYKASKEMGETILLRAVESYLLAHSADAYN 160
OY 121 HTKGDHEVKAQYKASKEMGETILLRAVESYLLAHSADAYN 159

RESULT 2
ID US-07-847-010-3 STANDARD; PRT; 160 AA.
XX xxxxxx
DT
XX
XX
DE Sequence 3, Application US/07847010
CC Patent No. 5693495
CC GENERAL INFORMATION:
CC APPLICANT: Breiteneder, Helmo
CC APPLICANT: Reikerstorfer, Arnold
CC APPLICANT: Valenta, Rudolf
CC APPLICANT: Hoffmann - Sommergruber, Karin
CC APPLICANT: Breitenbach, Michael
CC APPLICANT: Kraft, Dietrich
CC APPLICANT: Rumpold, Helmut
CC APPLICANT: Scheiner, Otto
CC APPLICANT: Ebner, Christof
CC APPLICANT: Ferreira, Fatima
CC TITLE OF INVENTION: Allergens of Alder Pollen and
CC TITLE OF INVENTION: Applications Thereof
CC NUMBER OF SEQUENCES: 23
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Pennie & Edmonds
CC STREET: 1155 Avenue of the Americas
CC CITY: New York
CC STATE: New York
CC COUNTRY: U.S.A.
CC ZIP: 10036-2711
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC APPLICATION NUMBER: US/07/847,010
CC FILING DATE: 01-JUN-1992
CC CLASSIFICATION: 435

CC ATTORNEY/AGENT INFORMATION:
CC NAME: Jones III, Harry C
CC REGISTRATION NUMBER: 20,280
CC REFERENCE/DOCKET NUMBER: 6530-010
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: (212) 790-9090
CC TELEFAX: (212) 869-9741/8864
CC TELEX: 66141 PENNIE
CC INFORMATION FOR SEQ ID NO: 3:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 160 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: peptide
CC HYPOTHETICAL: NO
CC ORIGINAL SOURCE:
CC ORGANISM: Alder (Alnus sp.)
CC SEQUENCE 160 AA; 17339 MW; 129339 CN;

Query Match 86.4%; Score 939; DB 1; Length 160;
Best Local Similarity 81.1%; Pred. No. 4.36e-76;
Matches 129; Conservative 22; Mismatches 8; Indels 0; Gaps 0;

Db 2 GFVNYEAEFTSVIPAAFLFAFLIDGDKLLPKVAPEAVSSVENIEGNGPGTIIKITPE 61
OY 1 GFVNYEAEFTSVIPAAFLFAFLIDGDKLLPKVAPEAVSSVENIEGNGPGTIIKISFPE 60

Db 62 GSPKRYKERDEVDYRNFYFSVIEGAVGALEKVCNEIKIVAAPGGSTIIKISNF 121
OY 61 GLPKRYKRDVDEVDHNFKNYSVIEGPIGDTLEKISNEIKIVATPDGGSILKISNKY 120

Db 122 HTKGDHEINAEQIKERKAVGLKAVESYLLAHSADAYN 160
OY 121 HTKGDHEVKAQYKASKEMGETILLRAVESYLLAHSADAYN 159

RESULT 3
ID US-07-847-010-17 STANDARD; PRT; 160 AA.
XX xxxxxx
DT
XX
XX
DE Sequence 17, Application US/07847010
CC Patent No. 5693495
CC GENERAL INFORMATION:
CC APPLICANT: Breiteneder, Helmo
CC APPLICANT: Reikerstorfer, Arnold
CC APPLICANT: Valenta, Rudolf
CC APPLICANT: Hoffmann - Sommergruber, Karin
CC APPLICANT: Breitenbach, Michael
CC APPLICANT: Kraft, Dietrich
CC APPLICANT: Rumpold, Helmut
CC APPLICANT: Scheiner, Otto
CC APPLICANT: Ebner, Christof
CC APPLICANT: Ferreira, Fatima
CC TITLE OF INVENTION: Allergens of Alder Pollen and
CC TITLE OF INVENTION: Applications Thereof
CC NUMBER OF SEQUENCES: 23
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Pennie & Edmonds
CC STREET: 1155 Avenue of the Americas
CC CITY: New York
CC STATE: New York
CC COUNTRY: U.S.A.
CC ZIP: 10036-2711
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: Patentin Release #1.0, Version #1.25

[illegible]

```

CC CC ZP: 10036-2711
CC CC COMPUTER READABLE FORM:
CC CC MEDIUM TYPE: Floppy disk
CC CC COMPUTER: IBM PC compatible
CC CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CC CURRENT APPLICATION DATA:
CC CC APPLICATION NUMBER: US/07/847, 010
CC CC FILING DATE: 01-JUN-1992
CC CC CLASSIFICATION: 435
CC CC ATTORNEY/AGENT INFORMATION:
CC CC NAME: Jones III, Harry C
CC CC REGISTRATION NUMBER: 20,280
CC CC REFERENCE/DOCKET NUMBER: 6530-010
CC CC TELECOMMUNICATION INFORMATION:
CC CC TELEPHONE: (212) 790-9090
CC CC TELEFAX: (212) 869-9741/8864
CC CC TELEX: 66141 PENNIE
CC CC INFORMATION FOR SEQ ID NO: 14:
CC CC SEQUENCE CHARACTERISTICS:
CC CC LENGTH: 160 amino acids
CC CC TYPE: amino acid
CC CC TOPOLOGY: linear
CC CC MOLECULE TYPE: peptide
CC CC HYPOTHEICAL: NO
CC CC ORIGINAL SOURCE:
CC CC ORGANISM: hazel (Corylus sp.)
CC CC IMMEDIATE SOURCE:
CC CC LIBRARY: POLLEN FROM ALLENGON AB, ENGELHOLM, SWEDEN
CC CC SEQUENCE 160 AA: 17489 MW; 129620 CN;

Query Match 81.2%; Score 883; DB 1; Length 160;
Best Local Similarity 73.0%; Pred.No. 7,89e-71;
Matches 116; Conservative 30; Mismatches 13; Indels 0; Gaps 0

Db 2 GVENEVETPSVITPAARLFKFSYVLDDGKLIRKAPQALTSVENEGMGPGETINITFGE 61
QY 1 GVFNETETTSVITPAARLFKAFILLDDGDLFPKVAPOALTSVENIEGNGPGETIRKISFPE 60
Db 62 GSRRKYVERDEVDONTNFKFSYVIEGDVLDGDKLEKVCSELTVAAPGGSILKISKF 121
QY 61 GLPFKYVADRDVEDVDHFNFKYNSVIEGPGIDGLEKISNFKITVAIPDGGSIILKISKRY 120
Db 122 HAKGDHEINAEEMGAKEMAEKLLRAVETYLALHSAEYN 160
QY 121 HTKGDHEYKAEQVAKSKEMGETLLRAVESYLLAHSDAYN 159

RESULT 5 STANDARD; PRT; 160 AA.
ID US-07-847-010-11
AC xxxxxx
DT
DE
xx
xx
xx
Sequence 11, Application US/07847010
CC CC Sequence 11, Application US/07847010
CC CC Patent No. 5693495
CC CC GENERAL INFORMATION:
CC CC APPLICANT: Breiteneder, Heimo
CC CC APPLICANT: Reikertstorfer, Arnold
CC CC APPLICANT: Valenta, Rudolf
CC CC APPLICANT: Hoffmann - Sommergruber, Karin
CC CC APPLICANT: Breitenbach, Michael
CC CC APPLICANT: Kraft, Dietrich
CC CC APPLICANT: Rumpold, Helmut
CC CC APPLICANT: Scheiner, Otto
CC CC APPLICANT: Ebner, Christof
CC CC APPLICANT: Ferreira, Fatima
CC CC TITLE OF INVENTION: Allergens of Alder Pollen and
CC CC TITLE OF INVENTION: Applications Thereof
CC CC NUMBER OF SEQUENCES: 23

```


CC STRANDEDNESS: single

SQ SEQUENCE 154 AA; 16035 MW; 122959 CN;

QY	6	ETTETSVIPARLEKFAFIIDGNLPEKPAQ-AISSVENIEGN-GAPGTIKKISPP-BEL	62
Db	67	VGTF-KEKY-ELDDYKAIILNGLGSD-VFOYKSKFPYQFTQKNDGSSIAKVSIEYEK	123
QY	63	PRKYVARDREVDHNEFKYNSVIEGGPIGDLEKISNEIKIVANPDGSSILKISNKYHT	122
Db	124	LSE-EV-ADPNKYIRLMTN-IVKDDAHFI	150
QY	123	KGDHEKPAQYKASKMEGETLLRAVESYLL	152
RESULT	13		
ID	US-08-592-936B-13	STANDARD;	PRT; 152 AA.
XX	xxxxxx		
DE	Sequence 13, Application US/08529236B		
CC	Sequence 13, Application US/08529236B		
CC	Patent No. 5783393		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Kellogg, Jill A.		
CC	APPLICANT: Bestwick, Richard K.		
CC	TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR		
CC	TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS		
CC	NUMBER OF SEQUENCES: 27		
CC	CORRESPONDENCE ADDRESS:		
CC	ADDRESSEE: Dellinger & Associates		
CC	STREET: 350 Cambridge Avenue, Suite 250		
CC	CITY: Palo Alto		
CC	STATE: CA		
CC	COUNTRY: USA		
CC	ZIP: 94306		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Diskette		
CC	COMPUTER: IBM PC compatible		
CC	OPERATING SYSTEM: DOS		
CC	SOFTWARE: FastSeq for Windows Version 2.0		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/592,936B		
CC	FILING DATE: 29-JAN-1996		
CC	CLASSIFICATION: 800		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Evans, Susan T.		
CC	REGISTRATION NUMBER: 38,443		
CC	REFERENCE/DOCKET NUMBER: 4257-0012		
CC	TELECOMMUNICATION INFORMATION:		
CC	TELEPHONE: (650) 324-0880		
CC	TELEFAX: (650) 324-0960		
CC	INFORMATION FOR SEQ ID NO: 13:		
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH: 152 amino acids		
CC	TYPE: amino acid		
CC	TOPOLOGY: linear		
CC	MOLECULE TYPE: protein		
CC	HYPOTHETICAL: NO		
CC	ANTI-SENSE: NO		
CC	ORIGINAL SOURCE:		
CC	INDIVIDUAL ISOLATE: predicted amino acid coding sequence		
CC	INDIVIDUAL ISOLATE: of drul		
CC	SEQUENCE 152 AA; 17092 MW; 123332 CN;		
Db	Query Match	9.3%; Score 101; DB 1; Length 152;	
Db	Best Local Similarity	22.7%; Pred. No. 2.48e+00;	
Matches	34; Conservative	44; Mismatches 62; Indels 10; Gaps 10;	
QY	8	EADIEISAPADKENVLNKSEAHNY-PTSQTGRTTGVAVHGEQWETDGSIKINNYALEGE	66
QY	6	ETETTSVIPARLEKFAFIIDGNLPEKPAQ-AISSVENIEGN-GAPGTIKKISPP-BEL	62
Db	67	VGTF-KEKY-ELDDYKAIILNGLGSD-VFOYKSKFPYQFTQKNDGSSIAKVSIEYEK	123

[illegible]

Fri Sep 8 09:52:07 2000

Search completed: Thu Sep 7 15:54:30 2000
Job time : 8 secs.

US-09-270-910-37.rai

